



# ***STIC Search Report***

***EIC 1700***

**STIC Database Tracking Number: 181634**

**TO: Wayne Langel  
Location: REM 9A29  
Art Unit : 1754  
March 8, 2006**

**Case Serial Number: 10/691434**

**From: Mrs. Kendra Banks  
Location: EIC 1700  
REMSSEN 4B28  
Phone: 571/272-2516  
Kendra.Banks@uspto.gov**

## **Search Notes**

No Cases Reported

US 6,306,358

Access DB# 1816321

# SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Wayne A. Lange Examiner #: 60603 Date: 3-7-06  
Art Unit: 1754 Phone Number: 302-1353 Serial Number: 10/691434  
Mail Box and Bldg/Room Location: E09A29 Results Format Preferred (circle): PAPER DISK E-MAIL  
(Rensen)

If more than one search is submitted, please prioritize searches in order of need.

\*\*\*\*\*

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

*Method for Producing the Same.*

Title of Invention: Crystalline Turbostratic Boron Nitride Powder and A

Inventors (please provide full names): Osamu Miyagawa

Earliest Priority Filing Date: 12-23-03

\*For Sequence Searches Only\* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

*Please do a litigation search  
for U.S. Pat. 6,306,358.*

SCIENTIFIC REFERENCE BR  
Sci & Tech Inf. Ctr.

MAR 10 2006  
REC'D

Pat. & T.M. Office

\*\*\*\*\*  
STAFF USE ONLY

**Current session 08/03/2006**

**Query/Command : N**

..FILE / ..INFO / ..GUIDE

**Query/Command : FILE PLUSPAT**

QUESTEL - Time in minutes : 0,69

The cost estimation below is based on Questel's  
standard price list

Estimated cost :	0.78 USD
Cost estimated for the last database search :	0.78 USD
Estimated total session cost :	0.78 USD

Selected file: PLUSPAT

PLUSPAT - (c) Questel-Orbit, All Rights Reserved.  
Comprehensive Worldwide Patents database  
Individual records for each Country or Patent Office  
Coverage: 75 patenting authorities; start dates vary from 1800 forward  
For PlusPat Fact Sheet, Pricing and FAQ, see the Questel.Orbit website  
Now available: Citations / Search Reports for German (DE) documents  
Last update of file: 2006/03/01 (YYYY/MM/DD) 2006-08/UP (last update)

Search statement 1

**Query/Command : US6306358/PN**

**\*\* SS 1: Results 1**

Search statement 2

**Query/Command : PRT FULL NONSTOP LEGALALL**

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1 / 1 PLUSPAT - ©QUESTEL-ORBIT

PN - US6306358 B1 20011023 [US6306358]  
TI - (B1) Crystalline turbostratic boron nitride powder and method for producing  
same  
IN - (B1) YAMAMOTO OSAMU (JP)  
AP - US8901898 19980602 [1998US-0089018]  
PR - US8901898 19980602 [1998US-0089018]  
IC - (B1) C01B-021/064  
EC - C01B-021/064T  
C04B-035/5831  
ICO - M01P-002/02

M01P-002/72  
M01P-002/90  
M01P-004/03

- PCL** - ORIGINAL (O) : 423290000; CROSS-REFERENCE (X) : 428403000
- DT** - Basic
- CT** - US3607042; US4562050; US4749556; US4810479; US5169613; US5230873; JP4814559 B; JP2296706 A; JP44966 B; JP547483 B; JP753610 B; JP7172806 A  
S. Kurita et al., "Pressureless Sintering of h-BN for Continuous Temperature Measurement of Melts" Shigen-Sozai-Gakkai-Shi(=J. Resources and Materials Assoc.) vol. 2 (1989) pp. 201-204.  
  
J. Thomas, Jr., et al., "Turbostratic.sup.1. Boron Nitride, Thermal Transformation to Ordered-layer-lattice Boron Nitride" Journal of the American Chemical Society, vol. 84 (1963) pp. 4619-4622.
- STG** - (B1) U.S. Patent (no pre-grant pub.) after Jan. 2, 2001
- AB** - Turbostratic boron nitride (t-BN) powder having excellent sinterability. A mixture of boric acid anhydride and urea is charged in a reaction vessel together with alkali-borate, heated step by step in the vessel in a nonoxidizing gas atmosphere of one atmospheric pressure or above, and kept at a temperature from 850 (degree) C. to 950 (degree) C. to yield an intermediate product formal substantially of an amorphous boron nitride powder (first reaction step). Then the intermediate product is heated and kept at a temperature from 1200 (degree) C. to 1400 (degree) C. to crystallize crystalline t-BN, and the product is purified by washing with water and aqueous solution to obtain pure crystalline t-BN powder.
- UP** - 2001-44

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*1 / 1 LGST - ©EPO*

- PN** - US6306358 B1 20011023 [US6306358]  
**AP** - US8901898 19980602 [1998US-0089018]  
**ACT** - 20040511 US/RF-A  
REISSUE APPLICATION FILED  
EFFECTIVE DATE: 20031023  
**UP** - 2004-20

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*1 / 1 CRXX - ©CLAIMS/RRX*

- PN** - 6,306,358 A 20011023 [US6306358]  
**PA** - Yamamoto, Osamu JP  
**ACT** - 20031023 REISSUE REQUESTED  
ISSUE DATE OF O.G.: 20040511  
REISSUE REQUEST NUMBER: 10/691434  
EXAMINATION GROUP RESPONSIBLE FOR REISSUEPROCESS: 1754

Reissue Patent Number:

Search statement 2

**Query/Command : FILE INPADOC**

LGST - Time in minutes : 0,04

The cost estimation below is based on Questel's  
standard price list

	Estimated cost :	0.05 USD
Records displayed and billed :	1	
	Estimated cost :	0.68 USD
Cost estimated for the last database search :		0.73 USD
Estimated total session cost :		1.51 USD

CRXX - Time in minutes : 0,03

The cost estimation below is based on Questel's  
standard price list

	Estimated cost :	0.05 USD
Records displayed and billed :	1	
	Estimated cost :	5.80 USD
Cost estimated for the last database search :		5.85 USD
Estimated total session cost :		7.36 USD

LITA - Time in minutes : 0,01

The cost estimation below is based on Questel's  
standard price list

	Estimated cost :	0.02 USD
Cost estimated for the last database search :		0.02 USD
Estimated total session cost :		7.38 USD

PLUSPAT - Time in minutes : 0,38

The cost estimation below is based on Questel's  
standard price list

	Estimated cost :	1.07 USD
Records displayed and billed :	1	
	Estimated cost :	1.49 USD
Cost estimated for the last database search :		2.56 USD
Estimated total session cost :		9.94 USD

Selected file: INPADOC

INPADOC International Patent Documentation Center

Source: European Patent Office - EPIDOS

Individual publication stage records for each Patenting Authority

Coverage: 75 patent offices ; start dates vary from 1968 forward

Current through weekly update 2006-09/up ; last update 2006/03/03

IPC Classes: for searching prior to 2006, use the qualifier: /IC

For searching IPC v8 (pd&gt;=2006), use the qualifiers: /ICAA /ICCA

Search statement 1

**Query/Command : FAM US6306358/PN**

1 Patent Groups

**\*\* SS 1: Results 1**

Search statement 2

**Query/Command : FAMSTATE NONSTOP**

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*1 / 1 INPADOC - ©INPADOC*

**PN** - US 6306358 BA 20011023 [US6306358]  
**TI** - Crystalline turbostratic boron nitride powder and method for producing same  
**IN** - YAMAMOTO OSAMU [JP]  
**PA** - YAMAMOTO OSAMU [JP]  
**AP** - US 89018/98-A 19980602 [1998US-0089018]  
**PR** - US 89018/98-A 19980602 [1998US-0089018]  
**IC** - C01B-021/064

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*1 / 1 LEGALI - ©EPO*

**PN** - US6306358 B1 20011023 [US6306358]  
**AP** - US8901898 19980602 [1998US-0089018]  
**ACTE** - 20040511 US/RF-A  
 REISSUE APPLICATION FILED  
 EFFECTIVE DATE: 20031023  
**UP** - 2004-20

Search statement 2

PATNO IS 6306358

DATE: MARCH 8, 2006  
LIBRARY: PATENT  
FILE: ALL

Your search request is:  
PATNO IS 6306358

Number of PATENTS found with your search request through:  
LEVEL 1... 1

Your search request has found 1 PATENT through Level 1.  
To DISPLAY this PATENT press either the KWIC, FULL, CITE or SEGMENTS key.  
To MODIFY your search request, press the M key (for MODIFY) and then the ENTER key.

For further explanation, press the H key (for HELP) and then the ENTER key.

LEVEL 1 - 1 PATENT

1. 6306358 , October 23, 2001 , Crystalline turbostratic boron nitride powder and method for producing same, Yamamoto, Osamu - 4-1 Oaza Daimon, Inuyama, Aichi, Japan (JP), 089018 (09)

CORE TERMS: powder, t-bn, crystalline, diffraction, peak, boron, particle, nitride, h-bn, vessel ...



UNITED STATES PATENT AND TRADEMARK OFFICE GRANTED PATENT

6306358

October 23, 2001

Crystalline turbostratic boron nitride powder and method for  
producing same

REISSUE: October 23, 2003 - Reissue Application filed Ex. Gp.: 1754; Re. S.N.  
10/691,434 (O.G. May 11, 2004)

APPL-NO: 089018 (09)

FILED-DATE: June 2, 1998

GRANTED-DATE: October 23, 2001

CORE TERMS: powder, t-bn, crystalline, diffraction, peak, boron, particle,  
nitride, h-bn, vessel ...

6306358 OR 6,306,358

Your search request has found no ITEMS.

To edit the above request, use the arrow keys. Be sure to move the cursor to the end of the request before you enter it.

To enter a new search request, type it and press the ENTER key.

What you enter will be Search Level 1.

For further explanation, press the H key (for HELP) and then the ENTER key.

6306358 OR 6,306,358

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For further explanation, press the H key (for HELP) and then the ENTER key.

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Patent Search - Number: 6306358

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